

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

<b>ST0006</b>	Overall LMA Rating	Total LMA Miles						
<b>Sutter Maintenance Yard Nelson Bend</b>	<b>U</b>	<b>0.50</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06	0.84	3.42	687.99%				
Encroachments						0.10		
<i>LMA Totals:</i>	0.06	0.84	3.42	687.99%	0.00	0.10	0.00	0.00

  

<b>Unit No. 01 Feather River West Levee - Nelson Bend</b>	Overall Unit Rating	Total Unit Miles						
<b>ST0006</b>	<b>U</b>	<b>0.50</b>						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06	0.84	3.42	687.99%				
Encroachments						0.10		
<i>Unit Totals:</i>	0.06	0.84	3.42	687.99%	0.00	0.10	0.00	0.00

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Nelson Bend**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**Sutter Maintenance Yard Nelson Bend**

Waterway			Bank	Unit Miles
Unit No. 01 Feather River West Levee - Nelson Bend				0.50
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			<b>U</b>	
Date of Inspection	3/30/2016 - 3/30/2016		9/28/2016 - 9/28/2016	
DWR Inspector	Sterling York		Sterling York	
Accompanied By	Steve Beckley		Steve Beckley	

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0006_01_s_2014_9				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0006_01_s_2014_10				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has flood fight supplies on hand at their equipment yard.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0006_01_s_2014_11				
Comment Code					
Inspector Comment					
Sutter Maintenance Yard has attended flood fight training.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start	0.01	Rating **	U	Issue No.	7
LM End	0.04	Issue Type +	En	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.887006 °	38.886591 °
				-121.614735 °	-121.614956 °
DWR ID	DWR_ST0006_01_f_2012_7				
Comment Code					
FE : Fence					
Inspector Comment					
A landowner has constructed a gate on the crown that hinders inspection of this unit. The unit was inaccessible for the fall 2012 season and was not inspected. The unit was accessible during the spring 2013 inspection, but was difficult to open and should be monitored. Met with landowner to perform spring 2015 inspection, and he should be contacted to open the gate for future inspections. The land owner is David Lowry his phone number is (925) 606-2403. He will open the gate for inspections but will not allow the LMA to put a lock on the gate, and the LMA does not do any maintenance to this levee.					

Photo 1 of 1 : FA\_2016\_ST0006\_471\_7\_20160928\_00006.jpg



View of fence and gate that only has land owners lock on it beginning of levee looking downstream. Fall 2016.

LM Start	0.02	Rating **	U	Issue No.	15
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886883 °	38.881287 °
				-121.614797 °	-121.614490 °
DWR ID	DWR_ST0006_01_f_2015_15				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation and trim up the trees 5 feet for visibility.					

Photo 1 of 1 : FA\_2016\_ST0006\_471\_15\_20160928\_00007.jpg



View of the trees, vegetation and elderberries along the waterside slope looking downstream. Fall 2016.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start	0.02	Rating **	U	Issue No.	2
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.886883 °	38.880833 °
				-121.614797 °	-121.614387 °
DWR ID	DWR_ST0006_01_f_2015_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the vegetation, wild growth, and trim up the trees 5 feet for visibility.					

Photo 1 of 1 : FA\_2016\_ST0006\_471\_2\_20160928\_00008.jpg



View of the vegetation, wild growth, trees, and elderberries along the landside slope looking downstream. Fall 2016.

LM Start	0.06	Rating **	M	Issue No.	4	
LM End	0.06	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.886277 °		38.886277 °
				-121.615129 °		-121.615129 °
DWR ID	DWR_ST0006_01_s_2012_4					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						
Elderberries are partially blocking visibility.						

Photo 1 of 1 : FA\_2016\_ST0006\_471\_4\_20160906\_00002.jpg



View of the elderberries that are blocking visibility.

LM Start	0.15	Rating **	M	Issue No.	5
LM End	0.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.885100 °	38.885100 °
				-121.615722 °	-121.615722 °
DWR ID	DWR_ST0006_01_s_2012_5				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

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**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start	0.16	Rating **	M	Issue No.	12
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884946 °	38.884946 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s _ 2015_12				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.18	Rating **	M	Issue No.	13
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884577 °	38.884577 °
				-121.615761 °	-121.615761 °
DWR ID	DWR_ST0006_01_s _ 2015_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	14
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.884151 °	38.884151 °
				-121.615732 °	-121.615732 °
DWR ID	DWR_ST0006_01_s _ 2015_14				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Levee Inspection Report By Mile - Fall 2016**

**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start	0.34	Rating **	M	Issue No.	6
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.882398 °	38.882398 °
				-121.614966 °	-121.614966 °
DWR ID	DWR_ST0006_01_s_2012_6				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Elderberries are partially blocking visibility.					

No Photos

LM Start	0.40	Rating **	U	Issue No.	16
LM End	0.46	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.881638 °	38.880795 °
				-121.614647 °	-121.614427 °
DWR ID	DWR_ST0006_01_f_2015_16				
Comment Code					
DE : Debris					
Inspector Comment					
The large pipe is laying along the waterside berm.					

Photo 1 of 1 : FA\_2016\_ST0006\_471\_16\_20160928\_00009.jpg



View of the pipe along the waterside berm looking downstream. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Nelson Bend**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River West Levee - Nelson Bend		0.50	09/28/2016 09/28/2016	Sterling York

LM Start	0.47	Rating **	U	Issue No.	8	
LM End	0.47	Issue Type +	En	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.880664 °		38.880664 °
				-121.614335 °		-121.614335 °
DWR ID	DWR_ST0006_01_s _ 2012_8					
Comment Code						
BU : Building						
Inspector Comment						
The building is directly behind the pipe that is laying along the waterside berm.						

Photo 1 of 1 : FA\_2016\_ST0006\_471\_8\_20160928\_00010.jpg



View of the building directly behind the pipe on the waterside berm looking downstream. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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